0950 Current Coil

DESCRIPTION

0950 Current Coil is designed for calibration of AC/DC clamp ammeters up to 1500A. Combination of three coil sections with 10, 25 and 50 turns fits most clamp meter sizes and ranges. Low impedance of 0950 reduces heat losses and poses less burden for its current source.

SPECIFICATIONS

Coil turns	Cross-section	Load time limit			Cooldown period [1]	Typical coil impedance [2]	
		≤ 15 A	20 A	30 A		50/60 Hz	1 kHz
10x	Ø 10 mm	-	4 min	1 min	10 min	18 µH + 25 mΩ	18 µH + 35 mΩ
25x	24 x 13 mm	-	15 min	5 min	15 min	77 µH + 25 mΩ	77 µH + 37 mΩ
50x	24 x 24 mm	-	15 min	5 min	15 min	170 µH + 50 mΩ	170 µH + 75 mΩ

*1 Coil is designed for continuous load up to 15 A and intermittent load up to 30 A with cooldown periods in between each use.
*2 Connecting a clamp meter to 0950 Current Coil increases its total impedance, which in turn increases voltage drop at coil terminals for any given current and frequency combination. Increasing voltage drop beyond max. compliance voltage of current source (f.e. multifunction calibrator) will cause the current source to overload and trip. If this happens, reduce amplitude and/or frequency of set current to decrease voltage drop down below compliance voltage limit.

GENERAL DATA

Recommended accuracy adder	± 0.3 % for DC current ± 0.3 % for AC current up to 100 Hz Presence of magnetic and/or conductive materials near the current coil may further influence calibration accuracy.
Operating range	5 °C – 40 °C
Dimensions (W x H x D)	300 x 53 x 128 mm
Weight	2 kg

Zelezna 3 | 619 00 Brno | Czech Republic | 420 543 250 886 | meatest@meatest.com | www.meatest.com

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